

ENERGY STAR® 2014–2015 Emerging Technology Award
Requirements: Demand Control Kitchen Ventilation (DCKV)

Scope: Demand control ventilation systems installed in commercial kitchens. Individual components of a DCKV system and hoods are not eligible for the Award.		
Performance Characteristic	Requirements	Required Documentation
Product Performance		
Idle Fan Speed	Capable of 50% reduction from the maximum design speed	User manual or specification sheet
Cooking Sensing	<p>Active Cooking Sensors (ACS); and/or Temperature Based Sensors (TBS); or Direct Appliance Communication</p> <p>Sensor Placement:</p> <ul style="list-style-type: none"> Optical sensors positioned in the hood or infrared sensors directed at cooking equipment that detect cooking activity prior to the increase of the hood duct temperature. Temperature sensors positioned in the hood or duct that detect cooking activity. Direct line of communication between the cooking appliances and the ventilation control system indicating cooking activity. 	User manual or specification sheet
Communication	<p>Systems are not required to have connected capabilities; however, if they are used then the following requirements apply.</p> <p>Provides communication with entities outside the system using, for all communication layers, the standards:</p> <ul style="list-style-type: none"> Included in the Smart Grid Interoperability Panel (SGIP) Catalog of Standards, and/or Included in the NIST Smart Grid framework Tables 4-1 and 4-2, and/or Adopted by the American National Standards Institute (ANSI) or another well-established international standards organization such as the International Organization for Standardization (ISO), International Electrotechnical Commission (IEC), International Telecommunication Union (ITU), Institute of Electrical and Electronics Engineers (IEEE) or Internet Engineering Task Force (IETF). 	User manual or specification sheet
User Controls	Provide visual indication of a fault in the same room as the unit when the system is bypassed or disabled	User manual or specification sheet
Certification	Applicable system components must be listed to UL 710 or equivalent. Ventilation hood, if sold with the system, must be listed to UL 710 or equivalent.	Copy of certification case files
Additional Company Requirements		
Product Commercialization Plan	Required for any company that does not currently sell their DCKV system(s) in the U.S. market	Company must submit and EPA must approve a <u>Product Commercialization Plan</u> for the U.S. market that includes: market size, commercialization partners, targeted applications, targeted regions, and staffing plan to support plan implementation.
Warranty	1 year parts and labor warranty from date of installation or 18 months from date of shipment	Copy of the warranty